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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/673,207	09/30/2003	Hyung-Jong Kang	101-1004	9591

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EXAMINER	
SARPONG, AKWASI	
ART UNIT	PAPER NUMBER
2625	
MAIL DATE	DELIVERY MODE
02/15/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/673,207	KANG ET AL.	
	Examiner	Art Unit	
	AKWASI M. SARPONG	2625	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *01/18/2011*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *43,45-48,51 and 57* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *43,45,46,47,48,51 and 57* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *30 September 2003* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☒ All b)☐ Some * c)☐ None of:

1.☒ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date *10/27/2005*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 01/18/2011 has been entered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claims 43, 45, 47, 48, 51 and 57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sekikawa (6498658) in view of Chen (7019869).

3. **Claim 43,** Sekikawa discloses an image forming device **(Digital Copier shown in Fig. 30)** comprising:

a printing unit to print an image on a print medium **(Print engine 121 shown in Fig. 30)**

a scanning unit including a scanner to scan a document to generate scanned document data **(Reading part 112 shown in Fig. 30, Col. 9 lines 50-54)**

a card connector removably connectable to a memory Card unit **(Col. 3 lines 43-45 – thus the card connector connects the memory card to the digital copier)** and

a control unit **(Control part 111 shown in Fig. 30)** coupled to the card connector **(Fig. 30 shows clearly that control part 111 is connected to the digital copier)** to detect an attachment state of the memory Card unit with respect to the Card connector **(Col. 7 lines 55-62- understand that Control part 111 controls the entire digital copier and therefore controls detecting if the card is attached or not)**

wherein the control unit is coupled to the scanning unit **(Please see Fig. 30, it clearly shows that Control part 111 is connected to reading part 112)** and operable to control storing of the scanned document data generated by the scanning unit **(Reading unit 112 shown in fig. 30)** according to the detected attachment state **(Col. 8 line 34 "to this detection result")** of the memory Card unit such that when it is determined that the USB memory unit is attached to the Card Connector input/output port, **(Col. 8 lines 25-28 "it is checked whether the memory card is removed or inserted")** the control unit is operable to store the scanned document data generated by the scanning unit in the Card memory unit, **(Col. 21 lines 25-32 "control of the writing of data in the memory card")**

wherein the control unit is coupled to the printing unit **(Please see Fig. 30, it clearly shows that Control part 111 is connected to printer Engine 121)** and operable to control printing **(Col. 21 line 32 "control of a printer engine 121")** of the scanned document data stored in the memory card unit **(Col. 21 lines 27-28- "control of the writing of data in the memory card")** such that when the memory card unit is attached to the memory card connector **(Col. 8 lines 25-28 "it is checked whether the memory card is removed or inserted")** the control unit is operable to read the

scanned document data stored in the memory unit **(Col 21 lines 28-29 "control of reading of data from the memory card)** and directly print the scanned document data stored in the memory Card unit via the printing unit without receiving printing instructions from a host computer. **(Col. 9 lines 50-53- thus "the image data read by the scanner part 110 are stored in the mainframe storage (memory) and then printed out on a paper by the printer part 120" therefore it is clear that after the image is scanned the image data can be read form the memory and then printed out on paper without any action from an external computer)**

Sekikawa does not disclose using a USB input/output port and a USB memory unit.

Chen teaches clearly a multi function apparatus that is coupled with a USB port that can be connected with a USB memory unit **(Col. 6 lines 34-38, Fig. 4 , USB port 471 and USB equipment 481).** Therefore with the teaching of using a USB port and USB memory unit of Chen, it will be obvious to one ordinary skilled in the art at the time the invention was made to include a USB input/output port and a USB memory unit with the memory card connector and the memory card.

Claim 44, (Cancelled)

Claim 45, Sekikawa in view of Chen discloses that the image forming device **(Sekikawa: Digital Copier shown in Fig. 30)** further comprising an internal storage unit to store the scanned document data generated by the scanning unit. **(Sekikawa: Col. 4 lines 22-24- thus the scanned image data is stored into memory S 119)**

Claim 47, Sekikawa in view of Chen discloses wherein the control unit controls storing of the scanned document data stored in the internal storage unit into the USB memory unit **(Chen: Col. 6 lines 34-38, Fig. 4 , USB port 471 and USB equipment 481)** when it is determined that the USB memory unit is attached to the USB input/output port. **(Sekikawa: Col. 8 lines 25-28 "it is checked whether the memory card is removed or inserted"- thus inherently before the image data can be stored, the memory card has to be inserted before it can be stored)**

Claim 48, Sekikawa in view of Chen discloses a display unit for displaying information about the image forming device and a manipulation unit for manipulating the image forming device, **(Sekikawa: Fig. 9-13 shows displays which is used to manipulate image data)** wherein if a plurality of pieces of scanned data are stored in the USB memory unit, **(Chen: Col. 6 lines 34-38- thus USB equipment 481 is used to store the scanned image data)** at least one piece of the scanned data is selectable via the manipulation unit. **(Fig. 16 shows a selection icon that is used to select an image data)**

Claim 49, (Cancelled)

Claim 50, (Cancelled)

Claim 51, Sekikawa in view of Chen discloses further that the image forming device comprising

a second input/output port removably connectable to a portable storage unit, which is selected from the group consisting of a memory stick (MS), a compact flash (CF) card, **(Chen: El. 420 shown in Fig. 4)** a secure digital (SD) memory card, **(Sekikawa: Col. 3**

lines 64 "memory card") a multimedia card (MMC), a smart media (SM) card, a universal serial bus (USB) memory card, **(Chen: Fig. 4 El. 471 and 481)** and an xD-picture card.

Claim 52-56, (Canceled)

Claim 57, Sekikawa in view of Chen discloses further that the image forming device further comprising a third input/output port removably connectable to a portable storage unit which is selected from the group consisting of a memory stick (MS), a compact flash (CF) card, **(Chen: El. 420 shown in Fig. 4)** a secure digital (SD) memory card, **(Sekikawa: Col. 3 lines 64 "memory card")** a multimedia card (MMC), a smart media (SM) card, a universal serial bus (USB) memory card, **(Chen: Fig. 4 El. 471 and 481)** and an xD-picture card.

4. Claim 46 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sekikawa (6498658) in view of Chen (7019869) and further in view of Iwai (2002/0021766)

Claim 46, Sekikawa in view of Chen discloses wherein the control unit stores the scanned data in the internal storage unit **(Chen: Col. 4 lines 39-41- thus memory device 260 shown in fig. 2 can be used to store the scanned image)** however Sekikawa in view of Chen does not disclose determining that USB memory unit is detached from the USB input/output port before the process continues.
Iwai discloses determine whether an external memory is attached and when it is not attached the IR reservation mode is used instead of the external memory. Therefore it

will be obvious to one ordinary skilled in the art at the time the invention was made to modify control unit 140 with the teaching of making the determination of the attachment of USB equipment 481 so that images sent to the equipment can be secured.

Response to Arguments

5. Applicant's arguments filed 01/18/2011 have been fully considered but they are not persuasive.

Regarding claim 43 applicant argues that the cited reference fails to teach or suggest, among other things, the limitation "the control unit is coupled to the printing unit and operable to control printing of the scanned document data stored in the USB memory unit such that when the USB memory unit is attached to the USB input/output port, the control unit is operable to read the scanned document data stored in the USB memory unit and directly print the scanned document data stored in the USB memory unit via the printin9 unit without receiving printing instructions from a host computer"

In reply Examiner respectfully disagree because as explained in the Office action Sekikawa discloses clearly, wherein the control unit is coupled to the scanning unit **(Please see Fig. 30, it clearly shows that Control part 111 is connected to reading part 112)** and operable to control storing of the scanned document data generated by the scanning unit **(Reading unit 112 shown in fig. 30)** according to the detected attachment state **(Col. 8 line 34 "to this detection result")** of the memory Card unit such that when it is determined that the USB memory unit is attached to the

Card Connector input/output port, **(Col. 8 lines 25-28 "it is checked whether the memory card is removed or inserted")** the control unit is operable to store the scanned document data generated by the scanning unit in the Card memory unit, **(Col. 21 lines 25-32 "control of the writing of data in the memory card")**

wherein the control unit is coupled to the printing unit **(Please see Fig. 30, it clearly shows that Control part 111 is connected to printer Engine 121)** and operable to control printing **(Col. 21 line 32 "control of a printer engine 121")** of the scanned document data stored in the memory card unit **(Col. 21 lines 27-28- "control of the writing of data in the memory card")** such that when the memory card unit is attached to the memory card connector **(Col. 8 lines 25-28 "it is checked whether the memory card is removed or inserted")** the control unit is operable to read the scanned document data stored in the memory unit **(Col 21 lines 28-29 "control of reading of data from the memory card)** and directly print the scanned document data stored in the memory Card unit via the printing unit without receiving printing instructions from a host computer. **(Col. 9 lines 50-53- thus "the image data read by the scanner part 110 are stored in the mainframe storage (memory) and then printed out on a paper by the printer part 120" therefore it is clear that after the image is scanned the image data can be read form the memory and then printed out on paper without any action from an external computer)**

Sekikawa does not disclose using a USB input/output port and a USB memory unit.

Chen teaches clearly a multi function apparatus that is coupled with a USB port that can be connected with a USB memory unit **(Col. 6 lines 34-38, Fig. 4 , USB port 471 and USB equipment 481).** Therefore with the teaching of using a USB port and USB memory unit of Chen, it will be obvious to one ordinary skilled in the art at the time the invention was made to include a USB input/output port and a USB memory unit with the memory card connector and the memory card.

Also, regarding claim 46 Applicant argues that the cited reference fails

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AKWASI M. SARPONG whose telephone number is (571)270-3438. The examiner can normally be reached on Monday-Friday 8:00am-5:00pm est.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, King Poon can be reached on 571-272-7440. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/King Y. Poon/
Supervisory Patent Examiner, Art Unit 2625

/Akwasi M Sarpong/
Examiner, Art Unit 2625
02/08/2011